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DAEWOO ELECTRONICS

LCD TELEVISION

INSTRUCTION MANUAL

LV32L1B1LM
LV32L1B1SM
LV42L1B1LM
LV42L1B1LF
LV42L1B1LZ

IMPORTANT INFORMATION

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling.

Many injuries, particularly to children, can be avoided by taking simple precautions such as:

(i) Using cabinets or stands recommended by the manufacturer of the television.

(ii) Only using furniture that can safely support the television.

(iii) Ensuring the television is not overhanging the edge of the supporting furniture.

(iv) Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.

(v) Not standing the television on cloth or other materials placed between the television and supporting furniture.

(vi) Education children about the dangers of climbing on furniture to reach the television or its controls.

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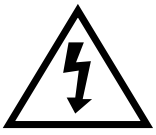
Caution

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

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Important Safeguards

Please read the following safeguards for your TV and retain for future reference.
Always follow all warnings and instructions marked on the television.

1. Read, Retain and Follow All Instructions
Read all safety and operating instructions before operating the TV. Retain them safely for future reference. Follow all operations and instructions accordingly.

2. Heed Warnings
Adhere to all warnings on the appliance and in the operating instructions.

3. Cleaning
Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.

4. Attachments and Equipment
Never add any attachment and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and Moisture
The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

6. Setting
Do not place this TV on an unstable cart, stand or table. Placing the TV on an unstable base can cause the TV to fall, resulting in serious personal injuries as well as damage to the TV. Use only a cart, stand, bracket or table recommended by the manufacturer or salesperson.

7. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not cover the ventilations openings in the cabinet and never place the set in a confined space such as built-in cabinet unless proper ventilation is provided. Leave a minimum 10 cm gap all around the unit.

8. Power Source
This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

9. Grounding or Polarization
This TV is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. A warning that an apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

10. Power-Cord Protection
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, wall outlets, and the point where they exit from the TV. MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

11. Lightning
For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.

12. Wall or Ceiling Mounting
When mounting the product on a wall or ceiling, be sure to install the product using the designated mounting tool according to the method recommended by the manufacturer.

Important Safeguards

13. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

14. Overloading

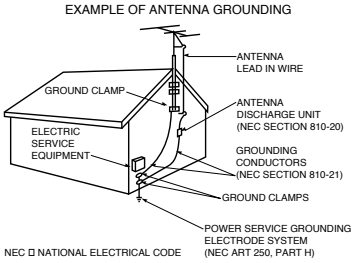
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

15. Object and Liquid Entry

Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on or into the TV.

16. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI /NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.


EXAMPLE OF ANTENNA GROUNDING
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC □ NATIONAL ELECTRICAL CODE

17. Servicing

Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18. Damage Requiring Service

Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:

(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV.
(c) If the TV has been exposed to rain or water.
(d) If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
(e) If the TV has been dropped or the cabinet has been damaged.
(f) When the TV exhibits a distinct change in performance - this indicates a need for service.

19. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. Safety Check

Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition.

21. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

22. Disconnection

Please place the TV set in such a way that the main plug can be easily disconnected.

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Warning

This section must be read carefully and followed by the user prior to the operation of the product.
The manual states important instructions for the user's own safety, and the proper operation of the product.

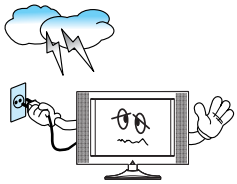
⚠ Warning Ignoring or disregarding the contents of this section and improper operation of the product may result in the person's death or serious injury.

In case of an accident, please unplug the unit from the outlet immediately.

To reduce the risk of electric shock, do not remove cover or back. No user - serviceable parts inside. Refer to qualified service personnel for repair.

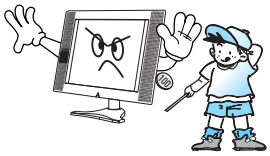
Do not put any object that contains water - such as flowerpot - near to the unit.
The water may penetrate into the unit, and be a cause of fire or hazardous electric shock.

To prevent fire and damages to the product, unplug the unit from the outlet during lightning storm, or when it is left unattended and unused for a long period of time.



Do not put on or use the product near water and moisture-such as in a bathroom, washbowl, etc. It may be a cause of fire and electric shock hazards.

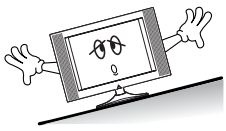
Slots and openings in the case are provided for ventilation to ensure reliable operation of the product. Never put in any item-such as a coin, paper, match- through these openings since it may touch dangerous voltage points that could result in fire or shock hazard.



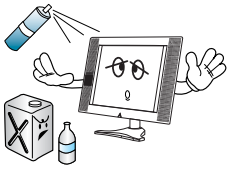
Do not let children hang on or climb on the product since it may be a cause of serious injury.

Hold the plug when unplugging the unit from the outlet. The cord may cause fire or electric shock if damaged.

Do not cause the product to lean or put it in an unstable place since it may cause a serious injury to a person, as well as damage to the product if it falls.

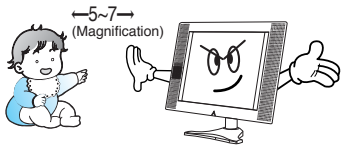


Do not put volatile substance-such as benzene, naphtha-near the product since it may cause a change in the product's colour.



Do not spill water or drop the remote controller since it may be a cause of malfunctioning.

Do not view the TV too closely since it may cause damage in your eyesight.



Refer servicing to qualified service personnel for cleaning at least once a year since dust inside the TV set may be a result or fire and malfunctioning of the product.

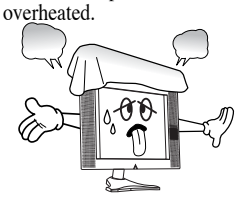
Warning

This section must be read carefully and followed by the user prior to the operation of the product.
The manual states important instructions for the user's own safety, and the proper operation of the product.

⚠ Caution Ignoring or disregarding the contents of this section and improper operation of the product may result in the person's death or serious injury.

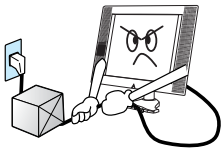
Please keep the user's manual in a safe place for future reference.

Do not cover the top of the television set. Ventilation will be prevented, and it may be a cause of fire if the product is internally overheated.

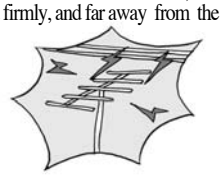


The product should be situated away from any heat source-such as radiators, heat registers, stoves, or other products that produce heat.

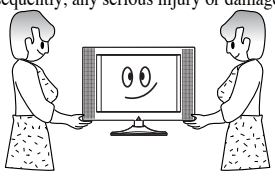
Do not put on any heavy item on the power cord since it may result in fire or hazardous electric shock if the cord is damaged.



Please be advised of electric wires and cables when installing the antenna. It may be a cause of hazardous electric shock and fire if the antenna touches or falls on the electric wire; thus, it must be installed firmly, and far away from the cables.



Unplug the power from the outlet and all the related connections from the unit to prevent electric shock. At least two people must work together to move the TV set when transporting to prevent the TV from falling, and consequently, any serious injury or damage.

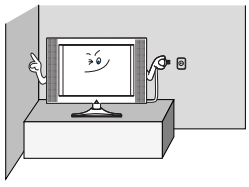


Do not touch the power cord with moisturized or wet hands when plugging to or unplugging from the outlet since it may be a cause of electric shock.

Do not expose the product to a dusty or moisturized place since it may be a cause of malfunctioning.

The screen case of the product is scratched easily.
When cleaning, use the microfiber sheet which enclosed.
When a force to give it cleans strongly, it will be scratched and the product's colour will be changed. If foreign material gets in the fiber, the product will be scratched. Shake off the fiber cleanly and use.

Please place the TV set in such a way that the main plug can be easily disconnected.



- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.

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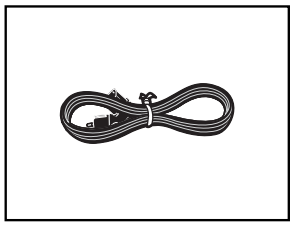
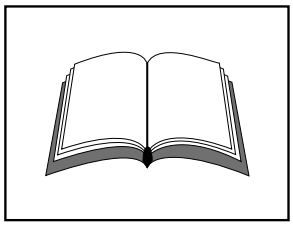
Supplied Accessories

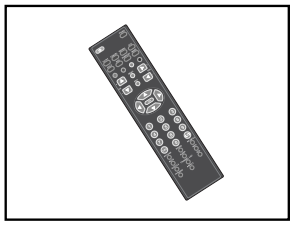
Make sure that the following accessories are provided with the product.



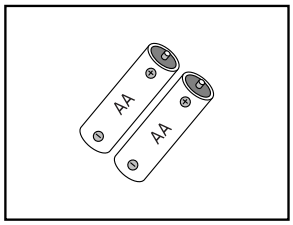
AC cord



Instruction manual



Remote controller



Batteries

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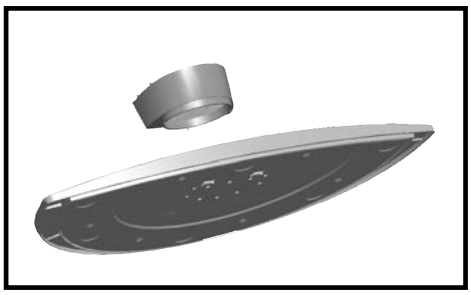
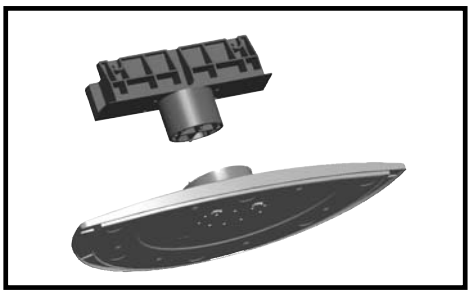
Stand Construction

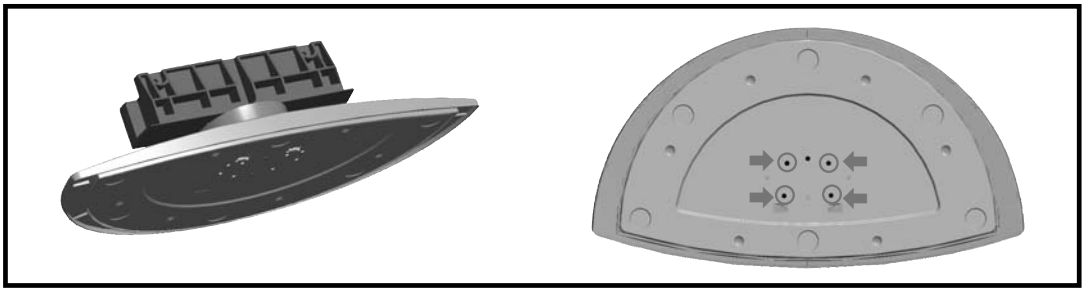
Stand Assy Construction



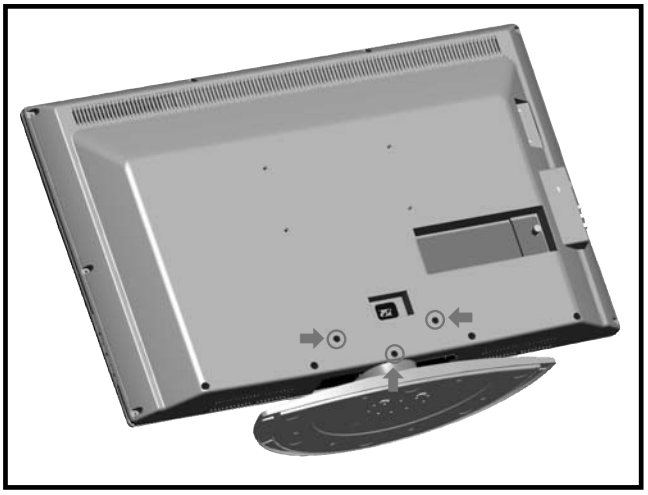
1. Fix a cover frame stand to the stand assy base.



2. Fix a frame stand to the stand assy.



3. Assemble plate stand base and frame stand with screw 4EA.



4. Assemble TV set and stand with screw 3EA.

⚠ When attaching stand to TV set, be sure to cover the surface to protect from accidental damage.

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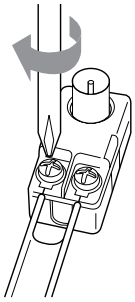
Antenna Connection

Indoor Antenna Connection

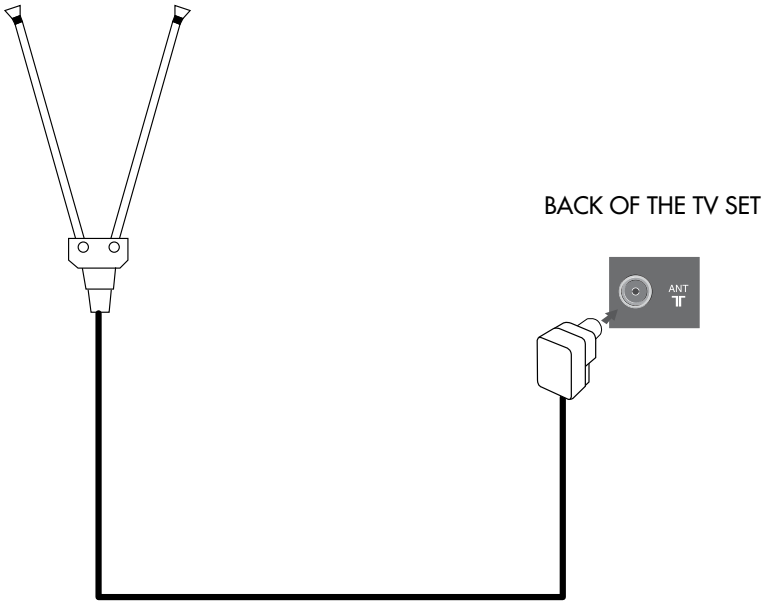
1. Connect the feeder cable of the antenna to the combining adapter.

WHEN THE IMAGE IS NOT CLEAR : Unclear screen image and bad reception may be a cause of wrong antenna connection. Be sure to check its direction and place when installing.



2. Connect the combining adapter to the antenna input at back of the TV set.

WHEN USING THE COMBINING ADAPTER : You may obtain the combining adapter at your closest Service Center.

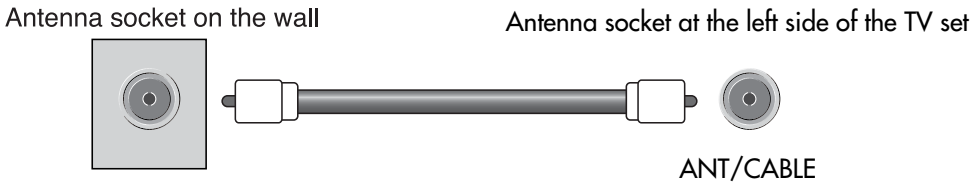


Antenna Connection

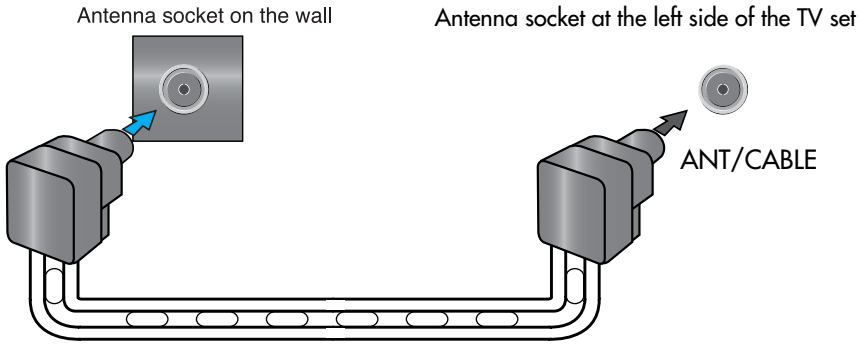
CTV Antenna Connection

Such community TV Antenna installation may be found in most of co-op apartments.

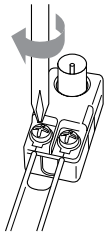
When a coaxial cable is used : Plug the coaxial cable to the antenna socket, and fix it firmly by turning it to the right.



When a feeder cable is used : Plug the coaxial cable to the antenna socket, and fix it firmly by turning it to the right.



Feeder cable connection with the combining adapter

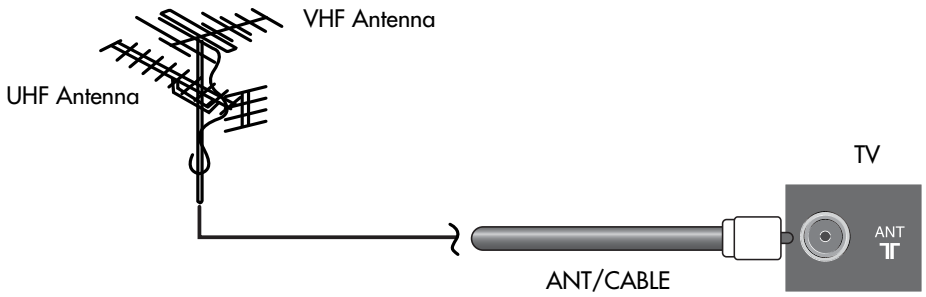


Antenna Connection

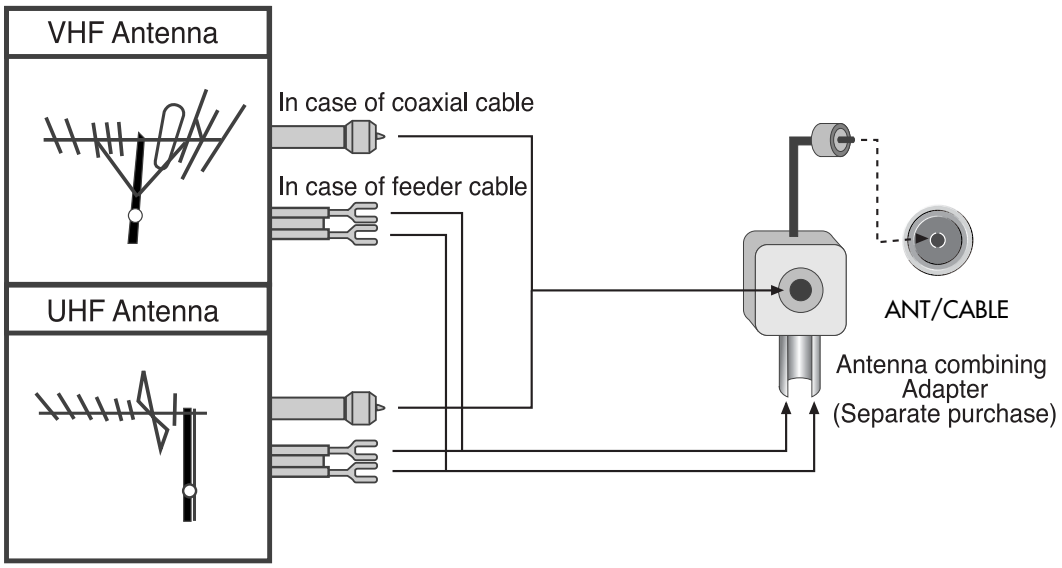
Outdoor Antenna Connection

Outdoor Antenna connection-such as VHF or/and UHF-may be necessary for installation at private houses

Single Antenna Connection



Separate Antenna Connection.



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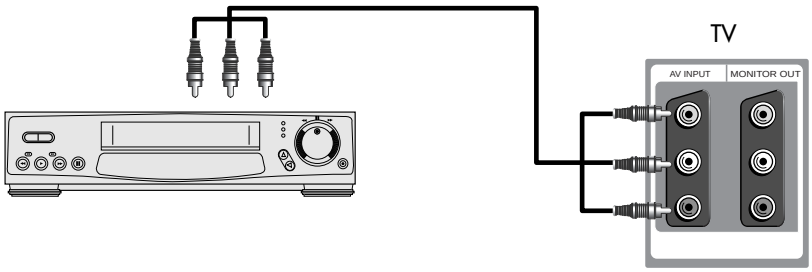
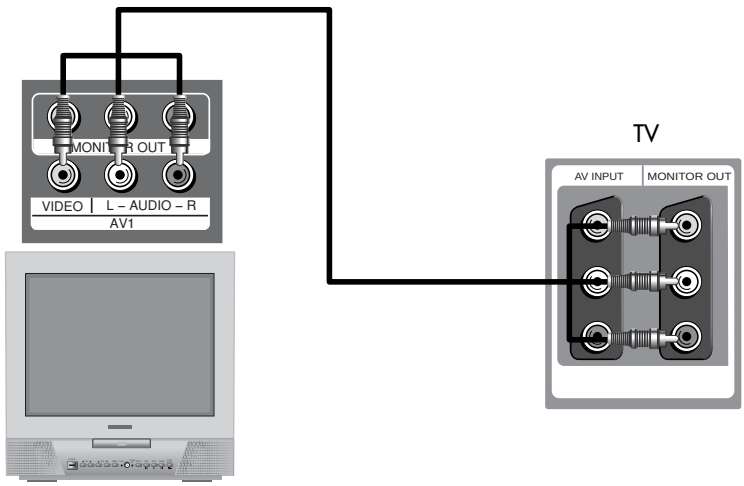
Video Connection

Connecting with an External Source



Connecting with the Monitor Out.

1. Prepare the RCA cable for picture / sound.
2. Connect the RCA to Monitor out terminal of TV set.
3. Connect the RCA to AV input terminal of other TV set.
4. Turn on the TV sets.



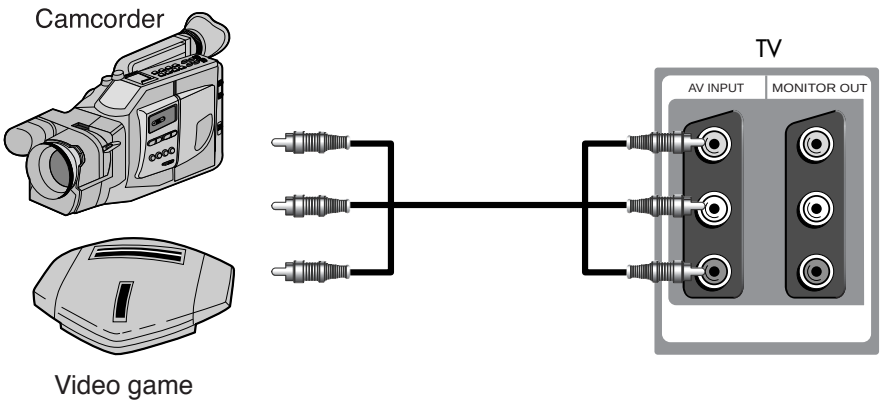
Note :

- Monitor out works only CVBS signal.
- Monitor out supports only output of Analog TV.

Camcorder & Video Game Connection

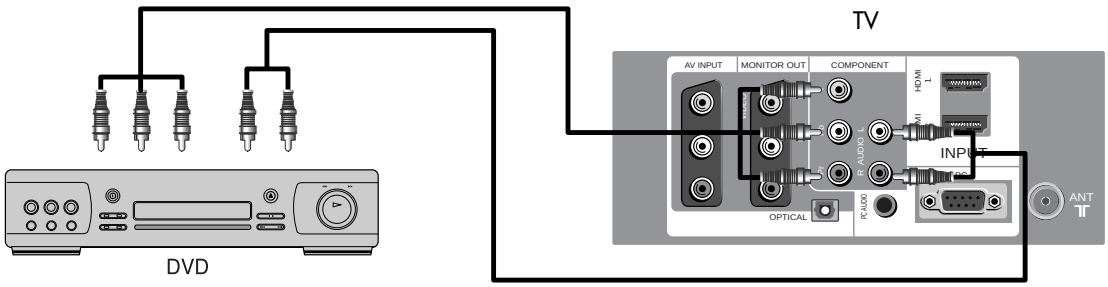
Watching the Camcorder Recording on TV

1. Prepare the RCA connector.
2. These connectors connect to AV as shown in the picture below.
3. Turn on the TV set and camcorder/video game.
4. Select AV mode, using the "TV/AV" button of the Remote controller.



DVD Player connection

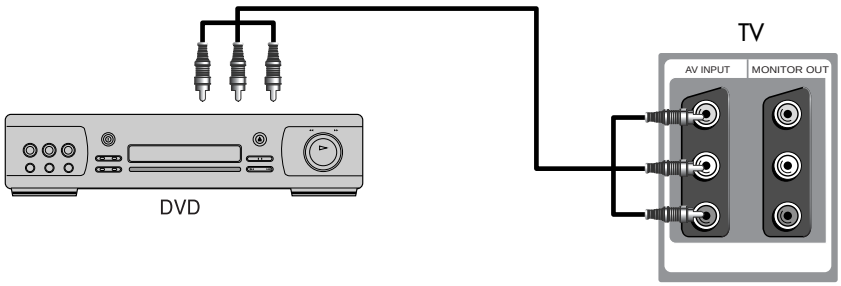
When connecting with a component cable



Note :

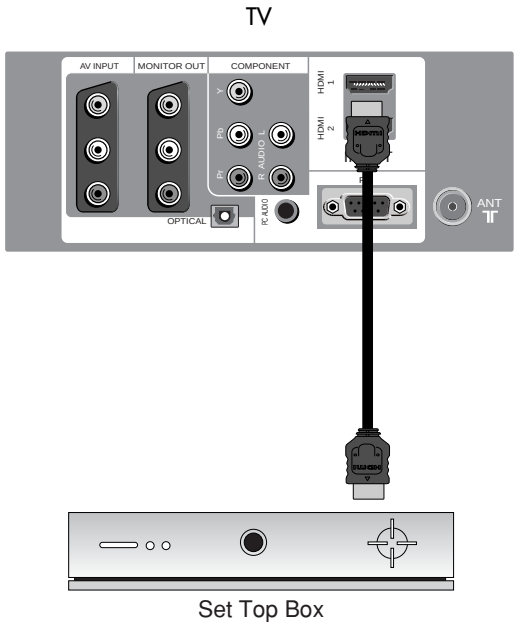
- When you connect with the component video, please check the colour of the cable between the DVD and TV set.

When connecting with a RCA cable

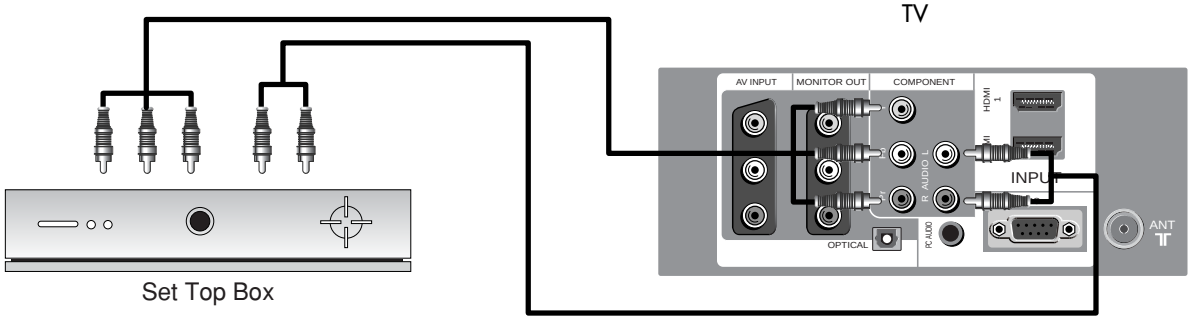


STB(Set Top Box) Connection

When connecting with a HDMI cable



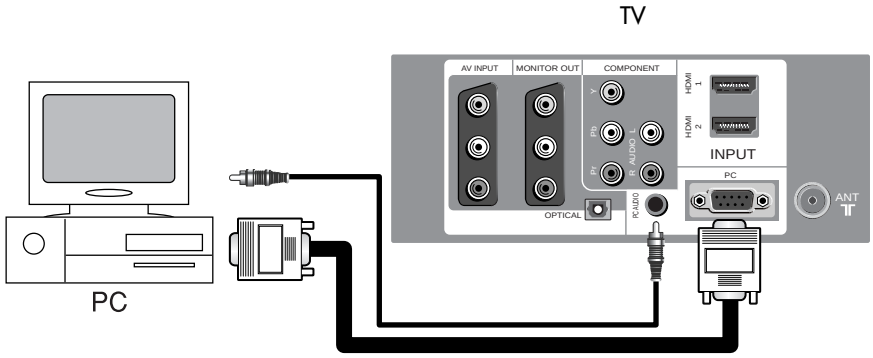
When connecting with a component cable



PC Connection

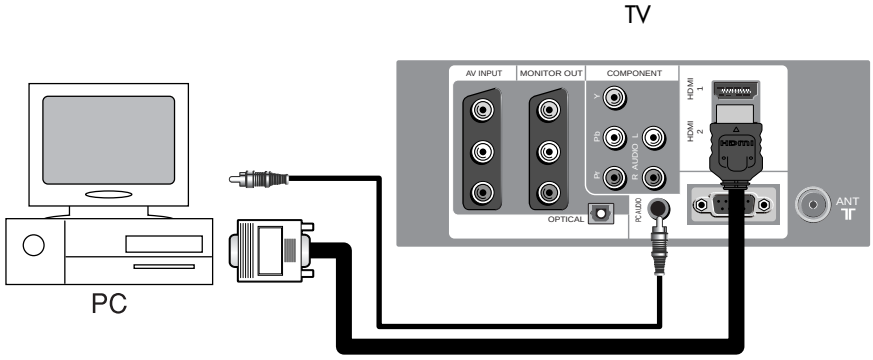
When connecting with PC(D-Sub) cable.

1. First adjust resolution of the PC. (Refer to table in page 18.)
2. Connect between PC and TV set using the D-sub and Audio cable as shown in the picture below.
3. Turn on the PC and TV set.
4. Select VGA mode, using the "TV/AV" button of the Remote controller.



When connecting with a DVI to HDMI cable.

1. First adjust resolution of the PC. (Refer to table in page 18.)
2. Connect between PC and TV set using the HDMI and Audio cable as shown in the picture below.
3. Turn on the PC and TV set.
4 Select HDMI mode, using the "TV/AV" button of the Remote controller.



Note : If the graphic card of the PC only supports a DVI signal, you must connect the Audio cable as shown in the picture upper.

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Resolution Table

NOTES :

1) If there is a [Vertical Frequency] setting menu in the [Display] Menu of the PC, adjust the frequency to 60Hz.
2) If the PC resolution is too high, it may be hard to detect signals. Select a suitable resolution.
3) HDMI input port receives only digital Signal.
4) Depending on the graphic card when you plug & unplug the HDMI connection the screen may not display correctly. Restart the computer if this happens.
5) Depending on graphic card, problems like no signal detected or line noises can occur. If these problems do occur contact the graphic card company for help.

Multi input resolution available in LCD TV.

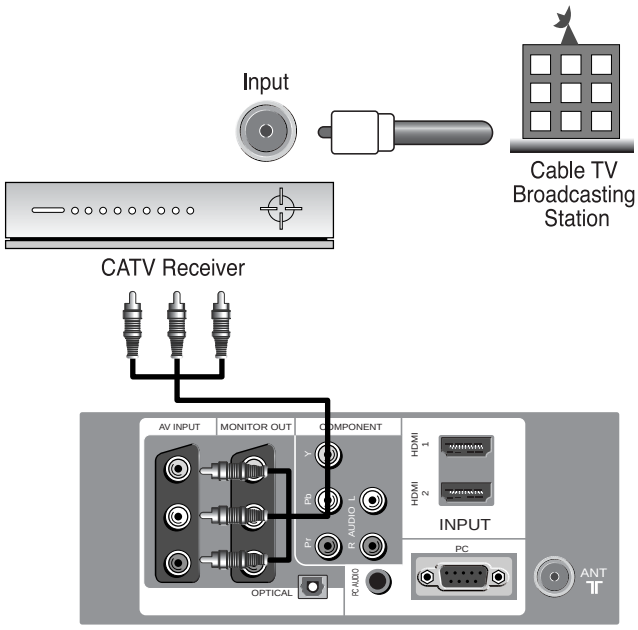
Resolution	V.Freq.	VGA	Component	HDMI
640 × 480	60Hz	O	X	O
	72Hz	O	X	O
	75Hz	O	X	O
800 × 600	60Hz	O	X	O
	72Hz	O	X	O
	75Hz	O	X	O
1024 × 768	60Hz	O	X	O
	70Hz	O	X	O
	75Hz	O	X	O
1280 × 1024	60Hz	O	X	O
	75Hz	O	X	O
1360 × 768	60Hz	O	X	O
1920 × 1080	50Hz	O	X	O
	60Hz	O	X	O
480i	60Hz	X	O	O
576i	50Hz	X	O	O
480P	60Hz	X	O	O
576P	50Hz	X	O	O
720P	50Hz	X	O	O
	60Hz	X	O	O
1080i	50Hz	X	O	O
	60Hz	X	O	O
1080P	50Hz	X	O	O
	60Hz	X	O	O

Note :
- When you connect with component, D-Sub, and HDMI, you must check the input resolution of external devices.
- The TV set might operate abnormally if you select unsupportable format.
- This TV does not support PIP/POP.
- If screen size or aspect ratio of TV is wrong using auto detect mode of external device, you should select another resolution in manual.

Cable TV Broadcasting Connection

External Input Connection Source

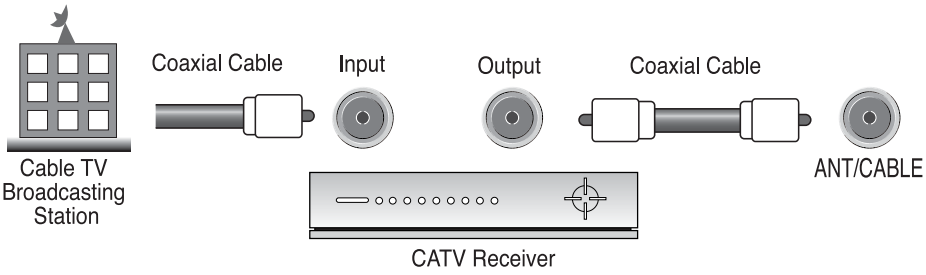
Watching cable television is only possible after you have subscribed to the local broadcasting company and installed a cable receiver. You may make the connection to any of the Component and AV input.



TV

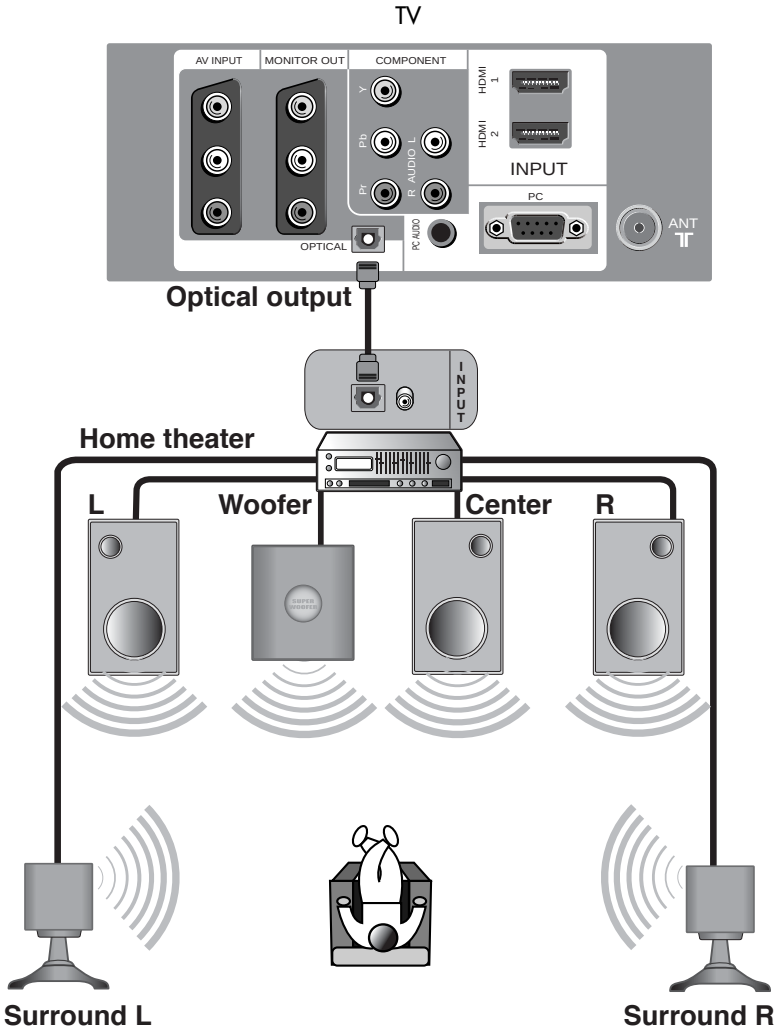
Antenna Input Connection

Watching cable television is only possible after you have subscribed to the local broadcasting company and installed a cable receiver.



Connect with the Home theater

If you connect the optical output to a Home theater, you can listen to better sound.



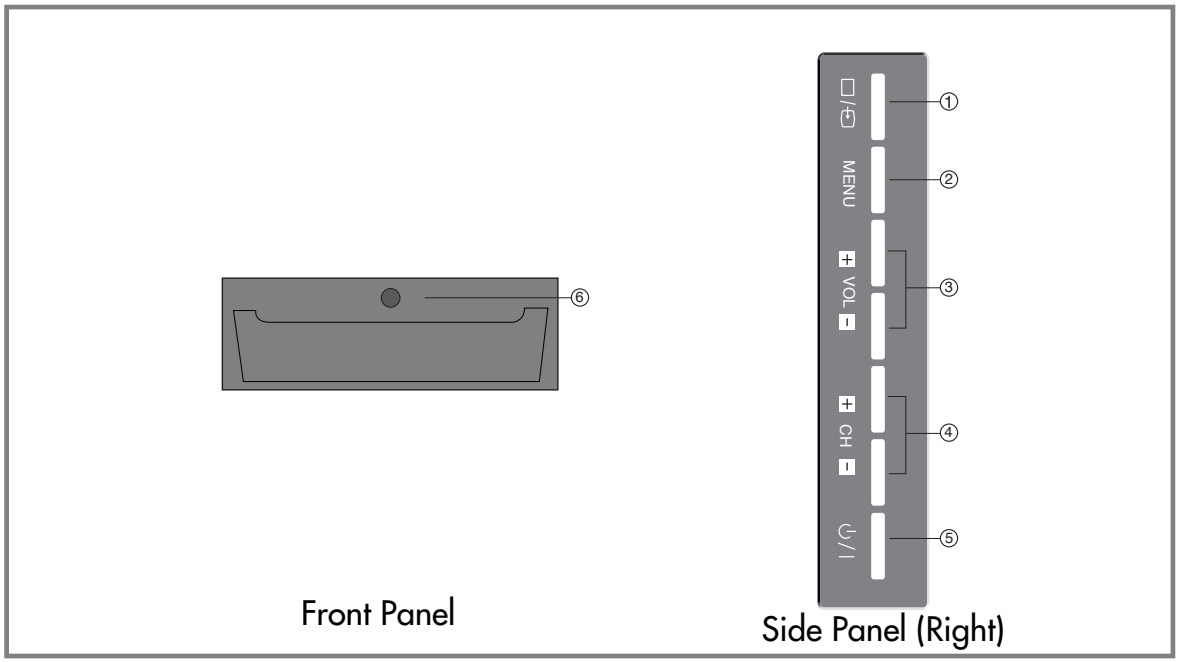
Note

- If you want to connect TV and home theater system, you need optical cable(option).
- If TV is connected with optical cable between TV and home theater, you might listen Dolby sound at the Digital TV.
- If you want to check either Dolby or not, press NICAM/A2 button on the remote controller, and you can easily watch MPEG(PCM) or Dolby(AC3).
- Optical sound output supports both PCM and Dolby(AC3) sound.

Name of Each Part

Front / Side Panel

Buttons on the TV set have the same functions as those of the remote controller.



Front Panel

Side Panel (Right)

Control Key Buttons.

① □/⊡ **Buttons :** Each time you press this button, the TV will cycle through: DTV --> TV --> COMPONENT --> VGA --> HDMI 1 --> HDMI 2 --> AV

② **MENU Button :** Use this button to enter and exit the MENU.

③ **Buttons :** Use this buttons to change your TV's volume or to SELECT the cursor in the menu.

④ **Buttons :** Use this buttons to change channels on your TV or to move the cursor in the menu.

⑤ **Stand-by/TV ON button :** Use this button to change from TV STANDBY mode to TV ON mode.
⏻/| **Button :** Use this button to change from TV STAND-by mode to TV ON mode.

⑥ **Remote controller signal receiver**
The screen contains the remote controller signal receiving window; therefore, point the remote controller towards the screen when using it.

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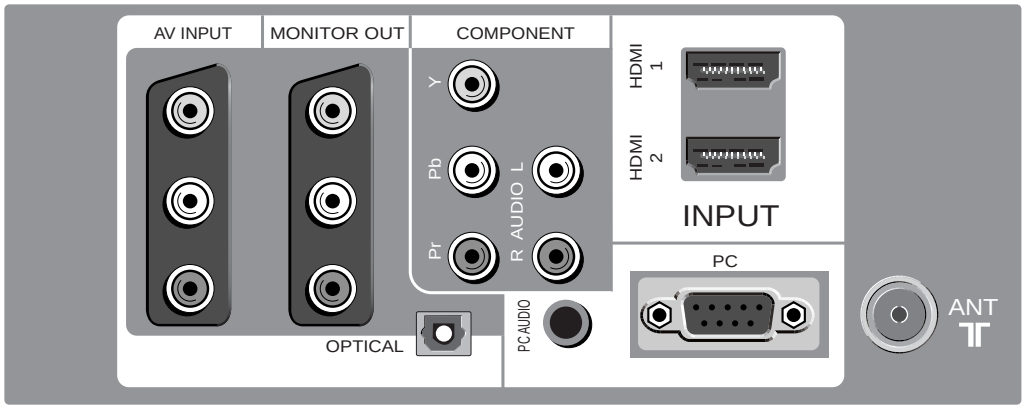
Name of Each Part

Rear Panel



Parts of the Remote Controller

1. **POWER** : TV on/off button in Stand-By mode.

2. **TV/AV** : Press this button to change mode.

3. **TELETEXT** : These buttons are used in teletext mode. (see the Teletext page).
   TV/TXT : Turn off/on the Teletext display.
   CANCEL : Cancel the Teletext display.
   REVEAL : Reveal any hidden text.
   HOLD : Hold or carry on the current subpage.
   SIZE : Press to see top half of page double size, Press again to see the bottom half of page double size. Press again for normal size.
   SUBPAGE : Press to subpage, again to cancel.
   INDEX : Go to index.

4. **DTV** : Directly changes from other modes to digital TV.

5. **4 Color buttons** : Short cuts-follow the colored links in the text.

6. **CH +/-** : changes channels on your TV.

Note :
- CH +/- keys support automatic changing from AV, PC, Component, HDMI, S-Video to Analog TV mode.
- When the current state is Stand-by mode, you can turn on the TV using CH +/- keys.

7. **Vol +/-** : Adjust the volume.

8. **Menu** : Press this button to enter the Menu or to exit from the Menu.

9. **Exit** : Press this button to exit directly from menu.

10. **4 Navigation** : Press this button to navigate in the menu, OSD, EPG.

11. **OK** : Selects and confirms the item. If you press this button in DTV mode, channel banner appear.

12. **NUMBER** : Press these numbers on this board, you can select PR directly in TV mode.

Note : When the current state is Stand-by mode, you can turn on the TV using a digit key.

13. **Picture** : Uses this button to change the size of screen.

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Parts of the remote controller

14. Sound : Uses this button to change the sound mode.

15. NICAM/A2 : You can select sound mode in Mono, Stereo, Dual1, Dual2 stereo It works only in TV mode.

16. Mute : Press this button, and the sound goes off.
Press again, and the sound returns.

17. Sleep : Sleep Timer setting.
SLEEP TIMER : OFF => 10 => 20 => 30 => 60 => 90 => 120 => 180 => 240 => OFF.

18. INFO : Means information, to display brief information concerning the current digital channel you are viewing.

19. SUBTITLE : To switch the caption at the bottom of the screen.

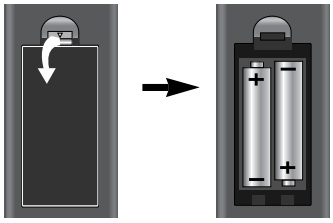
20. CHANNEL LIST : Display the programs list.

21. EPG : To show the Electronic Program Guide during no-menu state only.

22. TV/RADIO : directly moves between DTV channel and Radio channel.
Note : "TV/Radio" works only at the digital TV mode.

23. ASPECT : Press to change the display mode of aspect ratio the screen.

Inserting Batteries into the Remote Control Unit
To load the batteries, turn the remote control handset over and open the battery compartment. Insert the batteries (Two 1.5v, type AA). Make sure that the polarity matches with the (+) and (-) marks inside of the battery compartment.
Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.



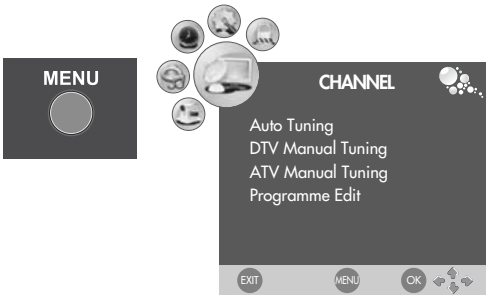
Method To Use Basic Menu

Basic Menu

- The basic menu appears on the screen if you press the “MENU” button of the remote control.
- There are 6 items CHANNEL, PICTURE, SOUND, TIMER, OPTION and LOCK menu.
- Each item has sub-items under it. If the desired item is selected, the relevant sub-items are displayed upward.

1. Press the "MENU" button.

• The main menu appears if you press the “MENU” button.



2. Press the "▼/▲" button.

• You may setup according to the directions on the screen after selecting the desired item by pressing the “▼/▲” button.

• If the setup is completed, exit from the menu by pressing the “MENU” button.

C H A N N E L : Auto Tuning, DTV Manual Tuning, ATV Manual Tuning, Program Edit.

P I C T U R E : Picture Mode, Contrast, Brightness, Color, Sharpness, Hue(NTSC only).

S O U N D : Sound Mode, Treble, Bass, Balance, Auto Volume, Surround Sound.

T I M E : Clock, Off Time, On Time, Sleep Timer, Auto Standby, Time Zone.

O P T I O N : Language, Audio Language, Subtitle Language, Country, Backlight, Restore Factory Default.

L O C K : Lock System, Set Password, Block Program, DTV Parental Guidance.

To Watch TV

On/Off, Number, Mute, OK, +CH-

- Buttons with same name in the front side of the set performs the same function.

Press the "⏻/I" button of the front side of the set or Remote controller.

- The buttons of the remote control or the front side of the set operate only when AC power is turned on.

Note : You can also turn on the TV using "+CH-" or digit key in the ST-BY mode.

When pressing the Channel button

- Select two digits if using the number button for channel selection.

To suddenly turn sound off

- Press the "MUTE" button.
- No sound is heard if "MUTE" is displayed on the screen.
- Sound is heard again if you press the "MUTE" button once again.
  For example, please use this button when telephone rings or when guest comes while watching TV.

Check of TV operation status

- If pressing the "OK" button, status of channel or broadcasting being currently watched or entry status of video component is displayed on the screen.

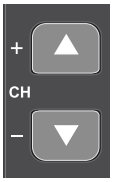
To Watch TV

1. Turning on the TV.

- Plug the AC lead into a power outlet.
- Press " ⏻ / | " button of the front side of the set or "POWER" button on the remote control.

2. Adjust program.

- Select the desired program by pressing the "+CH-" button or the number button.



3. Adjust volume.

- Sound reduces by pressing the "–VOL" button.
- Sound increases by pressing the "VOL + " button.

Note : Sound mutes by pressing the "MUTE" button.

4. Turning off the TV.

- Press " ⏻ / | " button of the front side of the set or "POWER" button on the remote control.

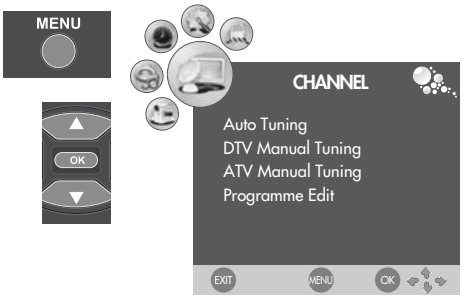
Setting Up TV Stations

Auto Tuning

- At the first-time power on, Installation Guide menu will be displayed.
- All stations that can be received are stored by this method. It is recommended that you use Auto tuning during installation of this set.

1. Press the "MENU" button to select the CHANNEL menu.

• Move the selection bar to the CHANNEL menu with "▼/▲/◀/▶" buttons.



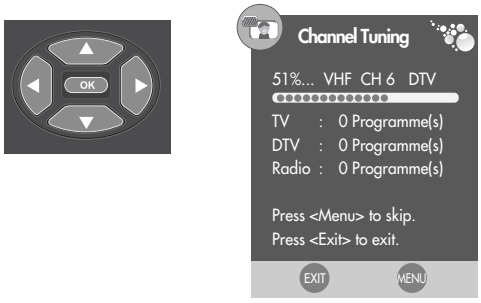
2. Select the "Auto Tuning".

• Place the selection bar on **Auto Tuning** and press the "◀/▶" button.

3. Start the "Auto Tuning".

• Press the "OK" button to start Auto Tuning.

Note : If Menu key is pressed during Auto tuning, digital or analog channel tuning can be skipped.

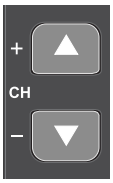


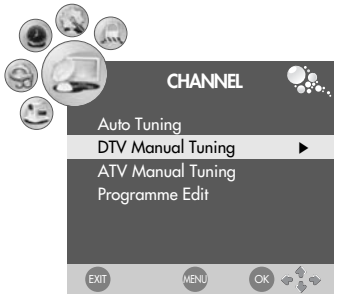
Setting Up TV Stations

Manual tuning

1. Digital TV Manual Tuning.
It is used to confirm signal strength or specific Channel frequency.

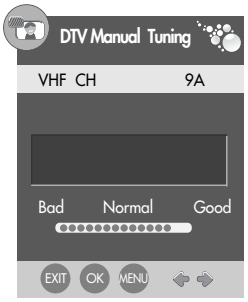
- Press the "MENU" button to select the Channel menu.
- Move to the Channel menu with "◀/▶" buttons.
- Place the selection bar on DTV Manual Tuning using "▼/▲" buttons and press the "OK" button.
- Check signal strength of channel you want using "◀/▶" buttons.





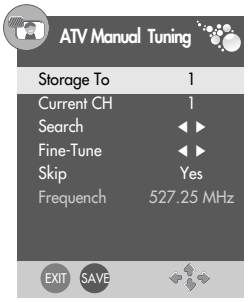
Note.

- After Auto Tuning, if digital TV picture quality is poor, it needs to check signal strength using this function.



2. Analog TV Manual Tuning.
It is used to adjust channel number, fine-tune, skip of specific Channel.

- Press the "MENU" button to select the Channel menu.
- Move to the Channel menu with "◀/▶" buttons.
- Place the selection bar on ATV Manual Tuning using "▼/▲" buttons and press the "OK" button.
- Place the selection bar on ATV Manual Tuning using "▼/▲" buttons and press the "OK" button.



<Function of ATV Manual Tuning.>

- Storage To : Select a position to store the current channel.
- Current CH : Select a channel you want to tuning.
- Search : Press to do manual search.
- Fine-Tune : Press to do detail tuning using "◀/▶" buttons.
- Skip : Select "Yes" to skip the channel when you scan the channels by CH+/-.
- Frequency : Display the current channel's frequency.

Note.

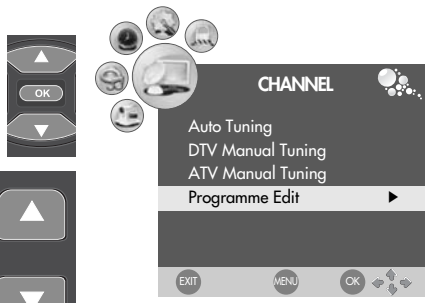
- If you are unable to get any channel using Auto Tuning because of a poor broadcasting signal, it is possible to store the ATV Manual tuning.
- If you are unable to get a good picture or sound because of a poor broadcasting signal, adjustment of the fine tuning might improve it.
- Press RED button to save all the setups you have changed.

Setting Up TV Stations

Program Edit

Programme Edit
Analog channel edit supports all of Delete, Rename, Move, Skip, Favorite channel functions. But digital channel edit supports only 3 functions of Delete, Skip, Favorite channel.

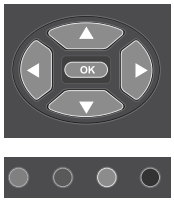
Do each function you want as followings.
- Press the "MENU" button to select the Channel menu.
- Move the selection bar to the Programme Edit with "▼/▲" buttons.
- Press the "OK" button.

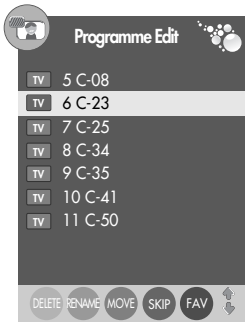


1. Delete the channel.
- Select to delete the channel on the Programme Edit OSD using "▼/▲" buttons.
- Press the red color button.

2. Rename the Channel.
- Select to rename the channel on the Programme Edit OSD using "▼/▲" buttons.
- Press the green color button.
- Rename using navigation keys on the remote controller.

Note.
- Rename supports capital/small letter alphabet, several symbols and number.





3. Move the channel.
- Select to rename the channel on the Programme Edit OSD using "▼/▲" buttons.
- Press the yellow button.
- Locate the channel using "▼/▲" buttons.

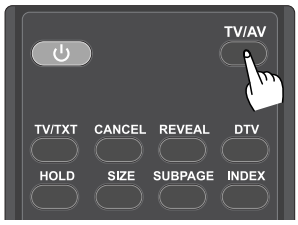
4. Skip the channel.
- Select to rename the channel on the Programme Edit OSD using "▼/▲" buttons.
- Press the blue button.

5. Favorite channel set-up.
- Select to rename the channel on the Programme Edit OSD using "▼/▲" buttons.
- Press the FAV button.

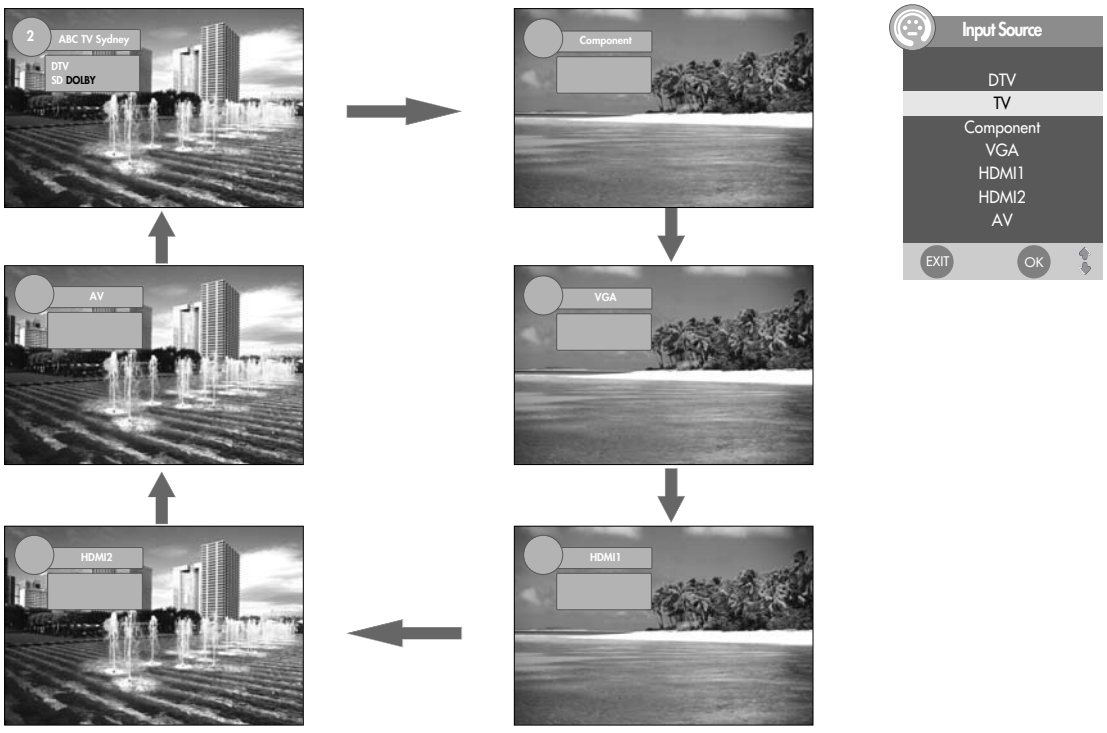
Selection of AV and Multimedia Input Signal

When watching video, Camcorder, DVD, Cable TV with AV

- Connect the external devices as an above pages.
- Change the mode connected the device using TV/AV button.



1. Pressing the TV/AV button on the remote controller.



Note :

Cautions in menu setup

- The menu disappears if you do not operate any button for about 15 seconds from the menu appearing.

Screen Adjustment

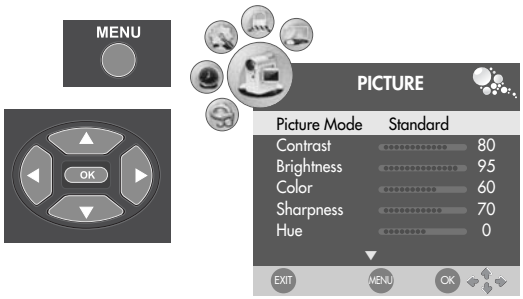
When setting up various screen modes

- The user may select various screens designed for a good picture without adjusting the brightness, contrast or color individually.

1. Select "Picture" by pressing the 'MENU" button.
2. Move to the "Picture Mode" using "▼/▲" button, and press "◀/▶" button again, the screen changes as follows : Standard --> Mild --> User --> Dynamic --> Standard

Note :

PICTURE button on the remote controller supports the same function.



Note :

- **Standard** : For a highly defined image in a normally bright room.
- **Mild** : Ideal for movies.
- **User** : Allows the user to customize settings as desired.
- **Dynamic** : Ideal for fast movement like sports.

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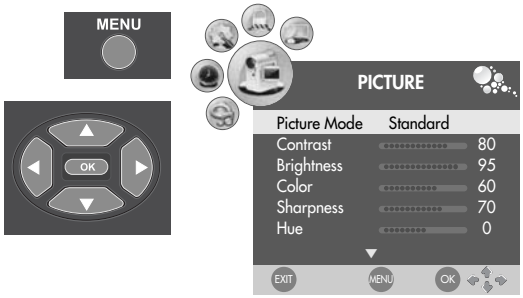
Screen Adjustment

When adjusting the screen to taste

- You can enjoy various screens by adjusting Brightness, Contrast, Color, Sharpness, etc to the user's taste.
- To change each of Brightness, Contrast, Color, Sharpness, etc, User mode should be selected.

1. Select "PICTURE" by pressing the "MENU" button.

• The menu screen appears as follows.



2. Select and adjust each items.

• Move to the PICTURE menu.

• Whenever pressing the "▼/▲" button, you can select and adjust each functions.

• The screen appears, as on the right, if pressing the "◀/▶" buttons after selecting items desired to adjust with the "▼/▲" buttons.
You can adjust all items by pressing the "◀/▶" button.

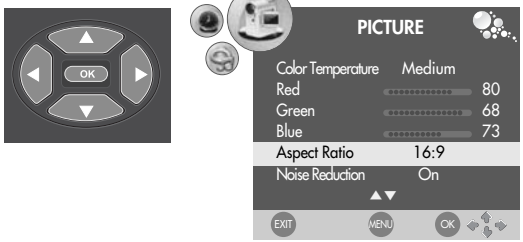
Note.

- Picture Mode : Changing the picture mode, Standard --> Mild --> User --> Dynamic --> Standard
- Brightness: Adjusts the whole of screen brighter or darker.
- Contrast: Adjusts difference between brightness and darkness between objects and background on the screen.
- Color: Adjusts colour saturation. (except from PC mode)
- Sharpness: Adjusts outline of the screen smoothly or sharply.
- Noise reduction: Removes noise of analog TV mode, AV.
- Colour Temperature: Changing the tone of colour:
  Warm: Reddish white, **Middle**: Medium of warm and cool, **Cool**: Bluish white, **User**: User setting mode.
- Hue: Activates when receiving a NTSC signal.
- Each set value of Contrast, Brightness, Color...etc on picture menu(Standard, Mild, Dynamic) might be changed according to display condition of Panel.

Screen Adjustment

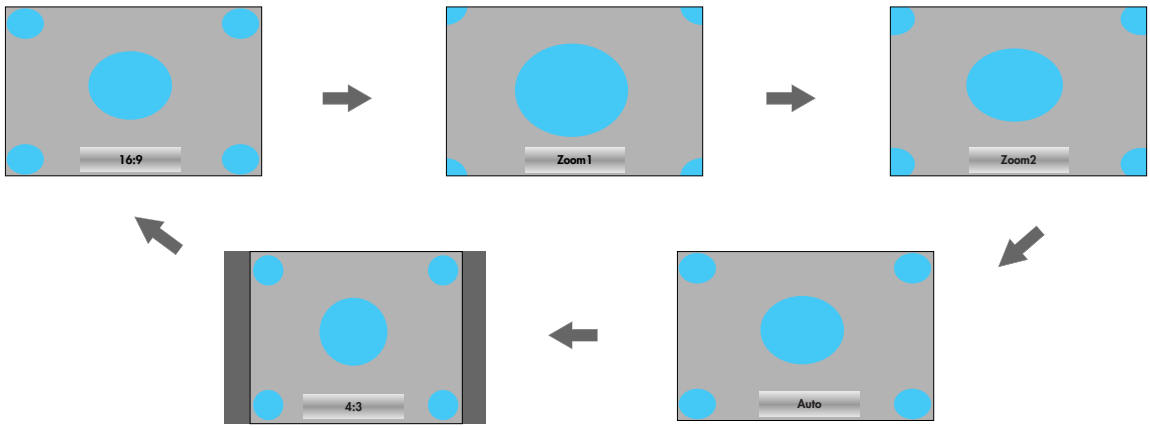
Adjustment of Screen Size in TV and AV mode

- Randomly change the size of the screen.
- The AUTO screen operates when power is first turned on.



1. Select "Screen" by pressing the "MENU" button and move to "Aspect Ratio" using "▼/▲" button.

- The screen changes as follows:
  16:9 --> Zoom 1 --> Zoom 2 --> Auto --> 4:3



- **16:9** : This mode will display full screen irrespective of signal information of a broadcasting station.
- **4:3** : General TV screen currently broadcasted.
- **Zoom1** : Screen can be enlarged as much as removed all-directions space.
- **Zoom2** : Screen that enlarges image as much as removed top and bottom space.
- **Auto** : This mode will display depending on the signal information of a broadcasting station.

Notices:

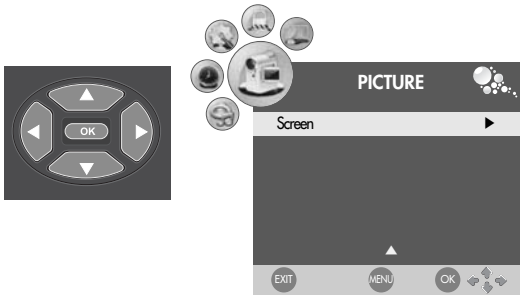
- Aspect ratio of PC mode supports only 16:9 and 4:3.
- This TV supports WSS(Wide Screen Signaling) of analog TV, AV1(only CVBS) or AFD(Active Format Description) of DTV. If "Auto Mode" is selected, screen size will be automatically changed depending on aspect ratio data of input signal.
- If aspect ratio is selected zoom 1 or 2, the portions of picture should be changed.

Screen Adjustment

Adjustment of the screen in the PC mode

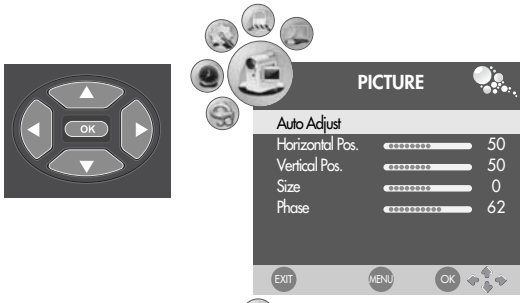
Do each function you want as followings.

- Press the "MENU" button to select the PICTURE menu.
- Move the selection bar to SCREEN with "▼/▲" buttons.
- Press the "OK" button.



1. Auto Adjustment

- Move to Auto in the Screen menu.
- Press the "◀/▶" buttons to detect optimal resolution automatically.

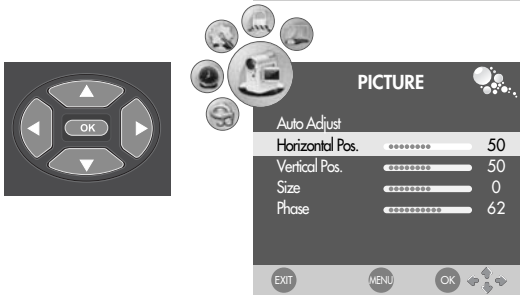


2. Adjustment of the H/V-Position

- Move to H-Position in the Screen menu.
- Press the "◀/▶" buttons to adjust the horizontal position of displayed image.

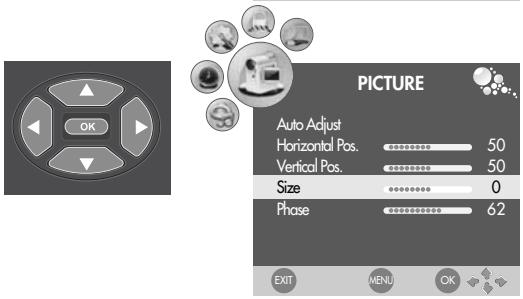
3. Adjustment of the Size

- Move to Size in the Screen menu.
- Press the "◀/▶" buttons to adjust the Size to fit the size of the screen.



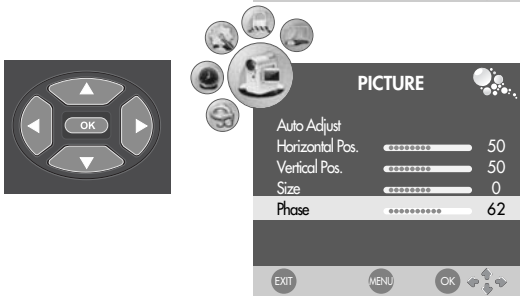
4. Adjustment of the Phase

- Move to Phase in the Screen menu.
- Press the "◀/▶" buttons to adjust the phase to get a clear picture.



Note.

- SCREEN of picture menu is appeared in the VGA mode connected PC.
- During the Auto Adjust, you don't have to change the screen resolution.
- Auto Adjust might be incorrectly worked in the moving picture like movie, so you must execute Auto Adjust in still image.
- Auto Adjust might be worked incorrectly according to graphic card in the PC.
- When Auto Adjust is not correctly working, you can adjust with H/V position, and phase.

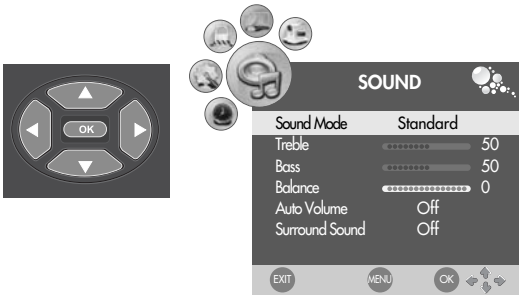


Screen Adjustment

Sound Mode, Balance, Surround Mode

Do each function you want as followings.

- Select "SOUND" by pressing the "MENU" and "◀/▶"button.

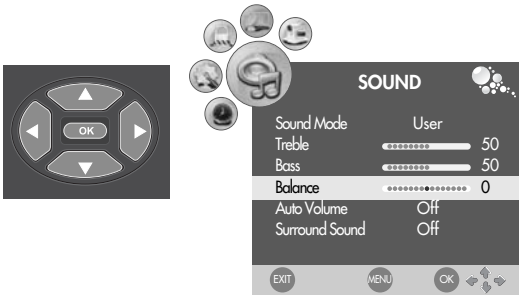


1. Select Sound mode.

- Move to the "SOUND" mode using "▼/▲" button, and press "◀/▶" button, the sound changes as follows : Standard -> Music -> Movie -> Sports -> User

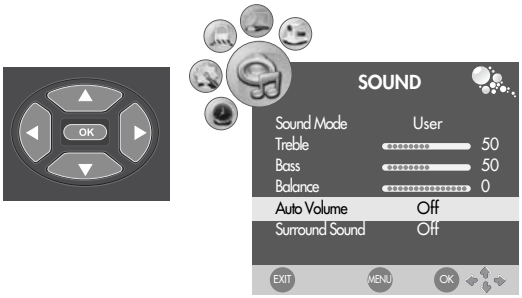
Note.

After selected "User" mode, Treble and Bass might be changed.



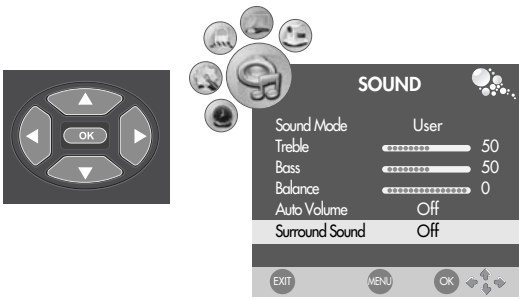
2. Adjust Balance.

- Move to Balance in the Sound menu.
- Adjust sound balance of left and right speaker is Adjusted.



3. Set-up Auto Volume.

- Select Auto Volume Control On/Off by pressing "◀/▶" button, then the volume between channels is same automatically.



4. Set-up Surround Sound.

Using this function, you can enjoy the sound effect. This function generates virtual surround sound from the left and right speaker by developing the existing surround system function.

- Move to Surround Sound in the Sound menu.
- Select either Surround On/Off using the "◀/▶" button.

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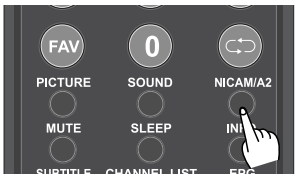
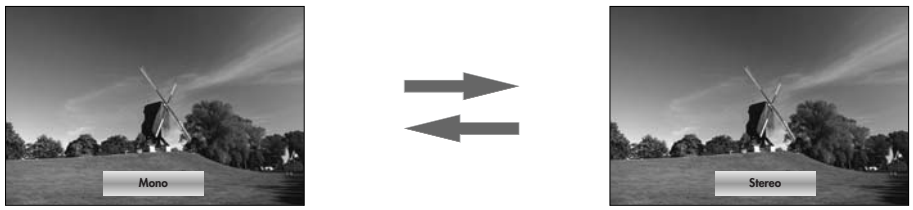
Sound Adjustment

Multi-Sound and Stereo (Analog TV mode only)

1. Mono Sound Selection

- During Stereo sound reception if the stereo is weak, you can switch to MONO by pressing the NICAM/A2 button.
  In Mono reception the depth of sound is improved.
- To switch back to stereo, press the NICAM/A2 button again.



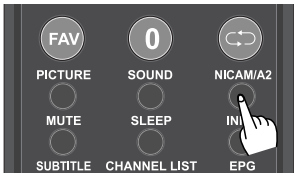


Note:

- NICAM/A2 only works in Digital and Analog TV mode.

2. Adjustment of Bilingual sound

- In bilingual broadcast reception, you can change Dual I, Dual II, Dual I+II by pressing NICAM/A2 button repeatedly.



Note:

- This TV supports the last memory of multi-sound at analog TV mode.

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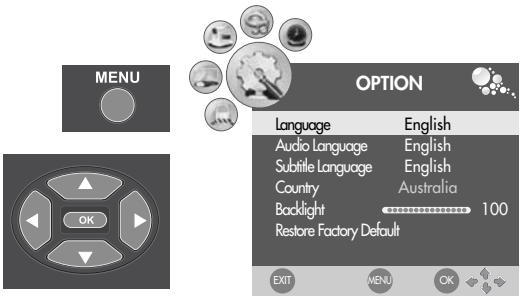
Selection of Language

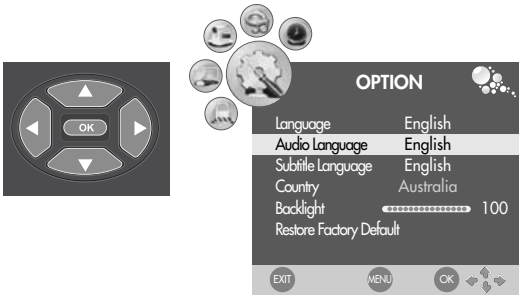
Selection of Language

When you first turn on the TV set, the window of language selection is displayed automatically.

1. Menu Language set up.
- Press the "MENU" button and select "OPTION".
- Move to Language using "▼/▲" button, and press "◀/▶" button, Language changes as follows : English --> Español --> Français --> Italiano --> Português --> Deutsch

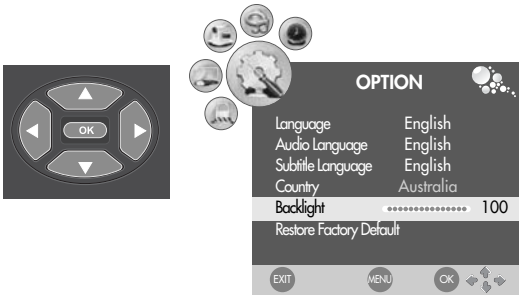


2. Audio, Subtitle Language set up.
- Press the "MENU" button and select "OPTION".
- Move to Audio or Subtitle Language using "▼/▲" button, and press "◀/▶" button.
  Language changes as follows :
  English --> Español --> Ελληνικά --> Français --> Hrvatski --> Italiano --> Magyar --> Nederlands --> Norsk --> Polski --> Português --> Русский --> Românește --> Slovenščina --> Srpski --> Suomi --> Svenska --> БЪЛГАРСКИ -->Gaelic -->Welsh --> Česky --> Dansk --> Deutsch

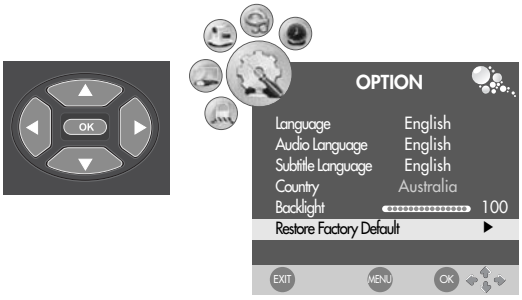


3. Adjustment of Backlight
1. Select "Screen" by pressing the "MENU" button and move to "Dimming" using "◀/▶" button.
2. Dimming : Adjusts the brightness of LCD Panel.

- Press the "MENU" button and select "OPTION".
- Move to Backlight using "▼/▲" button, and press "◀/▶" button.



4. Restore Factory Reset.
- It is used to initialize TV.



Note.
- When TV is received digital broadcasting, it supports Audio and Subtitle Language.
- You can check and adjust easily the audio, subtitle language using NICAM/A2 or SUBTITLE button on the remote controller.

Adjustment of Time

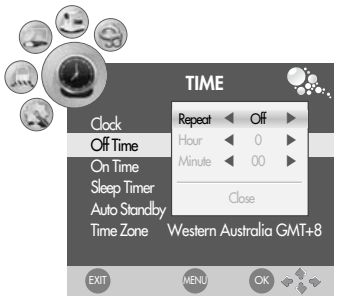
Adjustment of Time

- You must previously adjust current time in order to reserve Automatic On/Off.

1. Set up Off Time.

- Press the "MENU" button and select "TIME".
- Move to Off Time using "▼/▲" button, and then set up Repeat, Hour, Minute using "◀/▶" button.

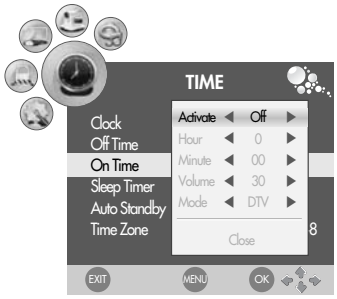
Repeat : select repeat cycle.
Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun, Sun.
Hour : 0~23 hours.
Minute : 0~59 minute.



2. Set up On Time.

- Press the "MENU" button and select "TIME".
- Move to On Time using "▼/▲" button, and then set up Activate, Hour, Minute, Volume, Mode using "◀/▶" button.

Activate : select repeat time.
Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun, Sun.
Hour : 0~23 hours.
Minute : 0~59 minute.
Volume : set volume level when TV turns on automatically.
Mode : set TV(Analog or Digital) mode when TV turns on automatically.

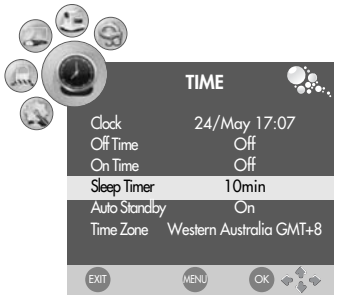


3. Set up Sleep Timer.

- Press the "MENU" button and select "TIME".
- Move to Sleep Timer using "▼/▲" button, then set up sleep timer using "◀/▶" button.
  Whenever pressing "◀/▶" button. Time changes as followings.
  Off -> 10 -> 20 -> 30 -> 60 -> 90 -> 120 -> 180 -> 240

Note.

- You can set up sleep timer easily using SLEEP button on the remote controller.

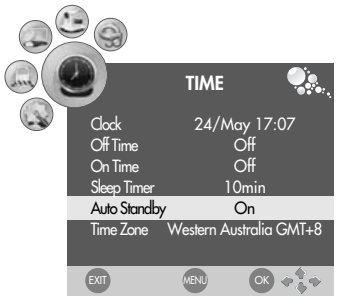


4. Set up Auto Stand-by

- Press the "MENU" button and select "TIME".
- Select Auto Stand-by On/Off by pressing "◀/▶" button.

Note.

- Auto Stand-by is set-up, if any signal does not loaded to TV during 5 minutes, TV will be automatically turn off.



Note.

- When TV is received digital broadcasting signal, Clock is set up automatically.

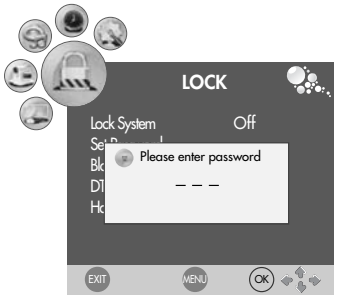
Adjustment of Lock

Adjusting of LOCK

- Each function of Lock system, Block Program, Digital Parental Guidance works respectively.
- Parental Control can be used to easily block specific channels using ratings of digital stations.
- Lock system of LOCK menu means Auto/Manual tuning lock.
- Although block program was set-up, specific lock channel is unlock after Auto/Manual tuning. If you want to block always specific channels, also lock system should be "ON".
- To use Lock function, always remember your password.

1. Set Password.

- Press the “MENU” button and select "LOCK".
- Move to Set Password using “▼/▲” button, and then press “OK” button.
- Press password.

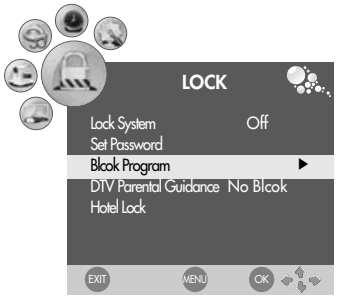


Note.

- The TV is set up with the initial password “0-0-0-0 ”.

2. Block channel set up.

- Press the “MENU” button and select "LOCK".
- Move to Block Program using “▼/▲” button, and then press “OK” button.
- Select the channel to block using “▼/▲” button, and then press “green” button.

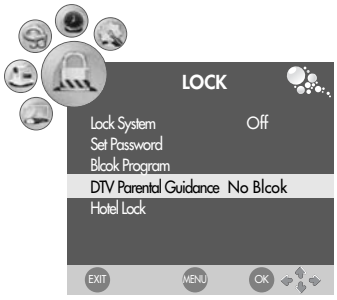


Note.

- Function of Block program might be worked all channels of Analog and Digital TV.
- Once LOCK function set up, you can watch the channel after entering the password correctly.

3. Set up Digital Parental Guidance.
   The Parental Control Function(V-Chip)is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

- Press the “MENU” button and select "LOCK".
- Move to Digital Parental Guidance using “▼/▲” button, then select rating “◀/▶” button.



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Adjustment of Lock

Adjusting of LOCK

Note.

- Digital Parental Guidance is supported in only digital TV mode.
- Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to video movies use the Movie Rating System (MPAA)only. Rating System (MPAA) only.

- **Detail rating of DTV Parental Guidance.**

  Block R and above : R means Restricted, under 17 requires accompanying parent or adult guardian.

  Block AV and above : not suitable for people under 15. This is similar to the MA15+rating, however it is used specifically to differentiate violent programming. In all other respects, the content cannot exceed the guidelines for MA15+. AV15+ content may only be broadcast between 9:30 p.m. and 5:00 a.m. on any day (though there has been one exception, Saving Private Ryan which aired at 8:30 p.m. with an additional warning). Consumer advice is mandatory.

  Block MA and above : Not suitable for people under 15. MA15+ content may only be broadcast between 9:00 p.m. and 5:00 a.m. on any day. Consumer advice is mandatory.

  Block M and above : Recommended for mature audiences. M content may only be broadcast between 8:30 p.m. and 5:00 a.m. on any day, and additionally between 12:00 p.m. and 3:00 p.m. on school days.

  Block PG and above : Parental guidance is recommended for young viewers. PG content may only be broadcast between 9:00 a.m. and 4:00 p.m. and between 7:00 p.m. and 5:00 a.m. on weekdays, and between 10:00 a.m. and 5:00 a.m. on weekends.

  Block G and above : For general exhibition.

Adjustment of Lock

Adjusting of LOCK

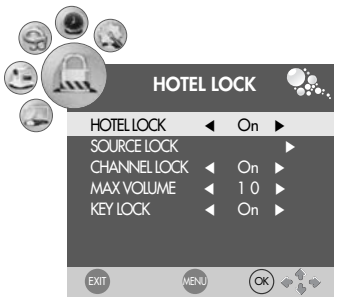
4. Set up Hotel Lock.

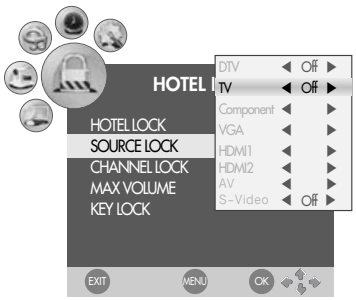
- Press the "MENU" button and select "LOCK". To enter LOCK of OSD Menu, Password should be pressed.
- Move to HOTEL LOCK using "▼/▲" button, and then press "OK" button.
- After HOTEL LOCK turns ON, the followings are activated.

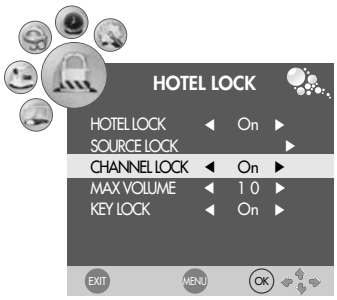
- SOURCE LOCK : Use to block changing mode into specific source.
- CHANNEL LOCK : Use to block entering CHANNEL of OSD menu.
- MAX VOLUME : Use to limit maximum volume level.
- KEY LOCK : Use to block operating side keys of TV Set.

Note.

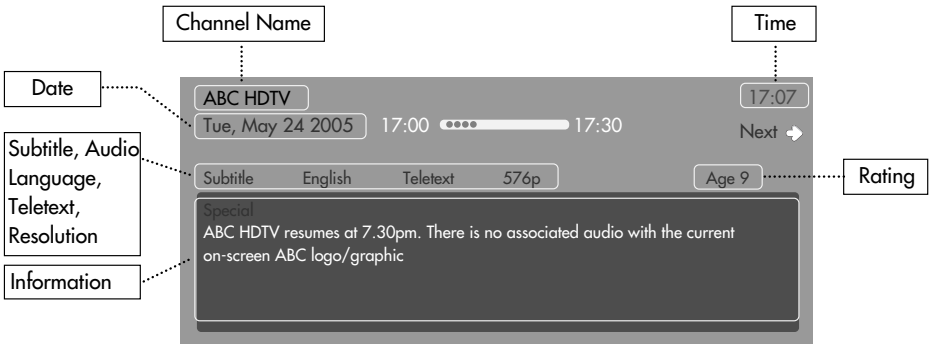
- When CHANNEL LOCK is On, TV set cannot be entered into CHANNEL menu.
- When MAX VOLUME is set-up, TV set will be operated under the set-up maximum volume. The other side, when HOTEL LOCK is Off, MAX VOLUME will be automatically off. The volume will be freely changed from 0 to 100.
- When KEY LOCK is ON, TV set can be turned-on by the only remote control. If TV set isn't turned on by side keys, check KEY LOCK set up.







About channel banner



Programme Guide

Programme Guide (EPG)

- You can check the channel information using function of electric program guide.
- Only Digital broadcast supports EPG information.

1. Enter the EPG menu.

- Press EPG button on the remote controller.
- Select a channel you want to check using ◀/▶/▲/▼ buttons.
- Press INFO button, and you can watch channel information.

- When yon press "OK" in Channels, TV goes to selected channel.

Note.

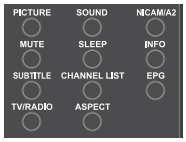
- You can also watch detail guide pressing INFO button on the remote controller.

2. Adjusting another day's EPG.

- If you want to check another day program guide, floating Programme Guide OSD, press yellow button.
  You can watch EPG of selected date using ◀/▶ buttons.

Note.

- If digital broadcasting signal does not include EPG data, No Information on the EPG menu is displayed.



3. Adjusting Reminder.

- Press EPG button on the remote controller.
- Select a channel you want to check using ◀/▶/▲/▼ buttons.
- Press the blue button, and set-up date, time., etc.
- Press OK button, and you can see schedule list.

Note.

- You should check manually schedule list because Reminder is only user-convenience function.

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Teletext

Teletext

SWITCHING TELETEXT ON/OFF
Each time you press TV/TXT on the remote controller, the screen changes as follows ;
TV mode --> Teletext mode --> Picture and teletext --> TV mode.

Note.
- Teletext works only at TV mode or AV(CVBS).
- If "EXIT" button is pressed at the teletext mode, it might easily go back to TV mode.

COLOUR BUTTONS IN TOP (Tables Of Pages) NB. not used in the UK /FLOF (Full Level One Feature) TELETEXT
A red, green, yellow and blue field is shown at the bottom of the screen.
If TOP or FLOF Teletext is transmitted by the station, pressing the corresponding colour button R,G,Y,B on the remote controller, enables you to select the desired page easily.

SELECTING PAGES
The "NUMBER" buttons are used to enter a page number.
The selected page number appears at the top of the screen and the page appears after a short time.
The "▼/▲" buttons increase or decrease the current page number by 1.

INDEX PAGE
You can switch directly to the programme preview(with TOP text) or the overview page of the station you are currently viewing by pressing the "INDEX" button ( ).

PAGE HOLD
Several sub pages can be combined under a page number and are scrolled at an interval determined by the television station. The presence of sub pages is indicated by, for example, 3/6 beneath the time, which means that you are looking at the 3rd page of a total of 6 pages.
If you want to look at a subpage for a longer period of time, press the "HOLD" button ( ).
The HOLD symbol appears and the contents of the subpage shown are kept on the screen and no longer updated or switched to other subpages. Pressing the "HOLD" button again, the current subpage appears.

CALLING UP SUBPAGE DIRECTLY
If TV is entered to the page having subpage, automatically 01, 02...characters will be displayed at light-lower corner of screen. There are two methods to watch a subpage. The first method is to manually press the number(0001 or 0002) of subpage using digit-key(0~9) after pressing "SUBPAGE"( ) button on the remote controller. And the second is to select the subpage number(01 or 02...) to call up using the "◀/▶" buttons.

Note.
- At the teletext mode, Subtitle key works the same function as subpage.

WATCHING TV DURING TELETEXT MODE
Some pages are continually updated, for example, stock market reports, sports announcements, and the latest news.
If you want to watch television and stay informed at the same time, press "CANCEL" button ( ).
The regular programme is still visible and the updated Teletext page number appears at the top of the screen.
Pressing the "CANCEL" button again, the Teletext page appears with the updated information.

REVEAL ANSWER
This function can be used on certain pages to reveal the solution of riddles.
Press the "REVEAL" button ( )to reveal a hidden answer and press again to hide it.

DOUBLING CHARACTER SIZE
Repeatedly pressing the "SIZE" button ( )doubles the character size in the following order:
Upper half of the page => Lower half of the page => Normal size => Upper half of the page.

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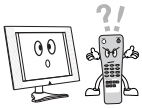
Troubleshooting

Symptoms and Solutions

Please check the following list prior to calling Daewoo Electronics Service Centre for assistance.

Symptom	Check items
Neither picture nor sound	- Check the contact of sockets is all right. - Check the TV main power is on.
Picture is OK but no sound	- Check the Volume control is set to minimum or mute.
Sound is OK, but no colour.	- Check the colour control and adjust it properly. - Check the program is in colour and not in black & white.
The picture has image.	- Check the antenna is installed correctly and if not, adjust the overlapped antenna toward the broadcasting station.
Picture has “snow noise”.	- Check the antenna or its connection is correct and if not, correct the antenna fault or connection cable fault. - Check if car traffic or neon sign disturbs the sound effect.
Stripes on picture.	- Check the susceptible interference by other electronic devices such as radio and television and keep magnetic or electronic devices away from the TV.
Bad stereo or Dual sound.	- Long distance from the station or other radio waves can generate bad sound reception. If so, change the mode to Mono.
Remote control does not work. 	- Check if the batteries in the Remote control are dead. - Check if any object between IR sensor of the TV and the Remote control does not obstruct.

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Troubleshooting

In PC mode

Symptom	Check items
"OUT OF RANGE" appears on the screen	- Check the resolution and frequency of your PC. Then, adjust them to optimum condition for LCD TV. - Refer to the table of PC mode input format (If registered resolution and frequency on the table no listed then no picture will be displayed.)
"NO SIGNAL" appears on the screen.	- Ensure that the signal cable is firmly connected to PC and TV.
Image is not clear.	- Adjust the PHASE control.
Image is not centered.	- Adjust the H-POSITION and V-POSITION control.

• AFTER SALES SERVICE

Do not hesitate to contact your retailer or service agent if a change in the perfomance of your product indicates that a faulty condition may be present.

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Standard of Product

Power Consumption	The remarked back of product
TV System	PAL B/G, D/K, I/I, SECAM B/G, D/K, NTSC(AV)
Power Source	220-240V, 50-60Hz

♥ Owing to our policy of continuous improvement, specifications may change.